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0018167

November 19, 1991

Meeting Minutes Transmittal/Approval
300-FF-1 Operable Unit Managers Meeting
450 Hills Street, Room 47, Richland, WA
October 17, 1991

From/ Appvl.: Robert K. Stewart Date: 11/21/91
Robert K. Stewart, 300-FF-1 Unit Manager, DOE-RL (A6-95)

Appvl.: David R. Einar Date: 21 Nov 91
David R. Einar, 300-FF-1 Unit Manager, EPA (B5-01)

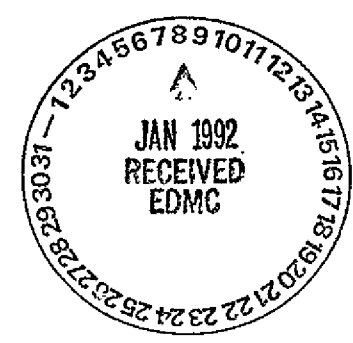
Appvl.: Richard B. Hibbard for Date: 11/21/91
Larry Goldstein, 300-FF-1 Unit Manager, WA Department of Ecology

Meeting minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Meeting Summary/Summary of Commitments and Agreements
- Attachment #2 - Meeting Agenda
- Attachment #3 - Attendance List
- Attachment #4 - Commitments/Agreements Status List
- Attachment #5 - 300-FF-1 Work Progress
- Attachment #6 - Briefing Materials: 300-FF-5 Groundwater Model
- Attachment #7 - Approved Document Change Control Form, #300-FF-1-05
- Attachment #8 - Briefing Materials: Project L-019

Prepared by: Gina Felt Date: 12/16/91
SWEC GSSC

Concurrence by: LC Hulstrom Date: 11/21/91
WHC FF-1 RI Coordinator



Distribution

300-FF-1 Operable Unit Managers Meeting
October 17, 1991

Ward Staubitz, USGS

Chuck Cline, WDOE

Tim Veneziano, WHC (B2-35)

Tom Wintczak, WHC (L4-92)

Mel Adams, WHC (H4-55)

Richard D. Wojtasek (L4-92)

Program Mgr., WHC

Diane Clark, DOE-RL (A5-55)

Donna Lacombe, PRC

Larry Hulstrom, WHC (H4-55)

Rich Carlson, WHC (H4-55)

Don Praast, GAO (A1-80)

Mike Thompson, DOE (A5-19)

David Pabst, WHC (B2-35)

Elizabeth A. Bracken (A5-19)

Director, DOE-RL, ERD

Ronald E. Gerton (A4-02)

Director, DOE-RL, WMD

Roger D. Freeberg (A5-19)

Chief, Rstr. Br., DOE-RL/ERD

Steven H. Wisness (A6-95)

TPA Proj. Mgr.

ADMINISTRATIVE RECORD: 300-FF-1; Care of Susan Wray, WHC (H4-22)

Please inform Doug Fassett (SWEC) of deletions or additions to the distribution list.

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Attachment #1

Meeting Summary and Summary of Commitments and Agreements

300-FF-1 Operable Unit Managers Meeting
October 17, 1991

Update of Outstanding Action Items - Larry Hulstrom (WHC) presented the current status of the outstanding Action Items (also see Attachment #4).

- 3FF1.33 Open; a 180 day implementation period is in effect for WHC-CM-4-10. Two new procedures are being placed in the health physics manual. EII 2.3 is being reviewed.
- 3FF1.49 Open; a status letter was sent to DOE on September 19. Discussions are still ongoing.
- 3FF1.56 Open; work on compiling the requested information is in progress. The scope of this task exceeded early expectations and it will require additional time.
- 3FF1.62 Closed; a discussion was held on October 17, 1991.
- 3FF1.64 Open; maps are awaiting WHC review and approval. Distribution will follow the approval.
- 3FF1.65 Closed; information was compiled and discussed on October 17, 1991.
- 3FF1.66 Closed; the status of this item was provided by J. Kessner at the General Topics meeting.
- 3FF1.67 Open; item 1) is complete and items 2) and 3) will be performed when appropriate.

Remedial Investigation Activities and Work Progress - Larry Hulstrom (WHC) presented an update on the remedial investigation activities for 300-FF-1 (also see Attachment #5).

1. **In-Pipe Remote Inspection of the RLWS:** Tony McKarns (WHC), who was working in this area, has left WHC to work for DOE. George Henckel (WHC) will be taking over the responsibility for this task.
2. **Soil Gas Survey Reports:** Larry Hulstrom (WHC) distributed copies of the soil gas survey report (WHC-MR-0288) to EPA, Ecology, and DOE. The report addressed the geophysical survey at burial grounds four and five.
3. **Geologic Data Compilation:** The final geologic report (WHC-EP-0500) is undergoing final clearance for release. Copies of the report that were stamped "Draft" were distributed to EPA, Ecology, and DOE.

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4. **Incorporation of Geology into Modeling Efforts:** Jack Sonnichsen (WHC) gave an update on groundwater modeling efforts (see Attachment #6). A flow and transport model for 300-FF-5 is being developed. There are plans to create hydrofacies and add heterogeneity to the geology in the future model.
 5. **Soil Investigation/Backhoe Sampling:** George Henckel (WHC) gave a brief presentation on obtaining soil samples with a backhoe in *one of the 316-5 process* trenches. Sampling occurred from the backhoe bucket. Mr. Henckel stated that the geologist's log showed a reading of 50 counts/min. all the way down. It was explained that the backhoe was in the process of being purchased.
 6. **Change Control Form:** The change request was signed and approved today (October 17) by the regulators (see Attachment #7). The sampling strategy was to use a backhoe instead of drilling boreholes for the remainder of the work in the north and south process ponds and the burial grounds. Chuck Cline (Ecology) stated he would like WHC to evaluate the backhoe samples and some samples from boreholes drilled previously. Mr. Cline said WHC would then decontaminate the backhoe bucket each time a sample was collected. Larry Hulstrom said the change request form reflects Mr. Cline's concerns.
 7. **Soil Investigation/Borehole Drilling:** WHC is proceeding with borehole drilling. Bob Stewart (DOE) asked to have a tentative agreement to come back to the regulators with a proposal to reduce the number of boreholes.
 8. **Report on Process Ponds:** At a meeting on October 1, it was mentioned by the regulators that they would like copies of a report on the process ponds. These reports were distributed to the regulators today (October 17).
 9. **Schedule:** Larry Hulstrom stated that he would like to *prepare* the current status of the schedule for 300-FF-1 as was done with the schedule for 300-FF-5.
 10. **300 Area Construction Projects Update:** Dick Hulseman (WHC) presented an update on Project L-019 which is a road, ground, and safety improvement project in the 300 Area (see Attachment #8). Mr. Hulseman raised the questions of whether a parking lot, where a burial ground is located, should be paved and whether any expedited response actions (ERAs) were planned for this burial ground. It was determined that Larry Hulstrom would talk to Fred Ruck (WHC) to find out about possible RCRA closure sites in the area.
 11. **Upcoming Meetings:** Bob Stewart said he anticipated having some internal meetings very shortly regarding ERAs and interim response measures (IRMs). Mr. Stewart will meet with Mr. Hulstrom prior to the next ERA/IRM meeting to develop a proposal to accelerate the clean-up work. It appears additional funding will be available.

Attachment #2

Agenda
300-FF-1 Operable Unit Managers Meeting
October 17, 1991

Introduction:

Status:

Action Items

Remedial Investigation

Schedule

Issues:

Other Topics:

Status of Incorporation of Geology into Modeling Efforts -
(J. Sonnichsen, WHC)

300 Area Construction Projects Update - LO-019 (R. Hulseman, WHC)

Agreements and Commitments

Presenter - Larry Hulstrom

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Attachment #3

Attendance List
300-FF-1 Operable Unit Managers Meeting
October 17, 1991

Name	Organization	Role	Phone
Stewart, Bob	DOE-RL	Unit Manager	(509) 376-6192
Cline, Chuck	Ecology	Geohydrology	(206) 438-7556
Cross, Steve	Ecology	CERCLA Unit	(206) 459-6675
Mullen, Richard	PMX	Ecology Support	(206) 455-2550
Einan, Dave	EPA	Unit Manager	(509) 376-3883
Lacombe, Donna	PRC	EPA Support	(206) 624-2692
Staubitz, Ward	USGS	EPA Support	(206) 593-6510
Drost, Brian	USGS	EPA Support	(206) 593-6510
Fryer, Bill	SWEC	GSSC/DOE-RL	(509) 376-9830
King, Joe	SWEc	GSSC/DOE-RL	(509) 376-4726
McClung, Bill	SWEC	GSSC/DOE-RL	(509) 376-1853
Shigley, Diane	SWEC	GSSC/DOE-RL	(509) 376 5038
Hulstrom, L. C.	WHC	Tech. Coord.	(509) 376-4034
Carlson, R.A.	WHC	Env. Eng.	(509) 376-9027
Swanson, L. Craig	WHC	Aquifer Testing	(509) 376-1438
Simpson, Reed	WHC	GeoSci. Coordinator	(509) 376-1097
Downey, Hal	WHC	Program Office	(509) 376-5539
Henckel, George	WHC	Env. Engr.	(509) 376-1994
Kessner, Joan	WHC	OSM	(509) 373-3507
Lerch, Jeff	WHC	OSM	(509) 373-3419
Weekes, Dave	WHC	Proj. Sci.	(509) 376-9839
Kelty, George	WHC	Adv. Scientist	(509) 376-6341
Koellermeier, Ed	WHC	Projects	(509) 376-8188
Hulseman, Dick	WHC	Projects	(509) 376-9793

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Attachment #4

Commitments/Agreements Status List
300-FF-1 Operable Unit
October 17, 1991

Item No.	Action/Source of Action	Status
3FF1.33	Assure that proper communication channels are maintained within WHC for activities concerning the 300 Area and define what criteria are to be followed for reporting surface contamination findings to DOE and the regulators. Revise EII 2.3 to include this information. Action: LC Hulstrom	Open A 180 day implementation period is in effect for WHC-CM-4-10; 2 new procedures are being placed in the HP manual; EII 2.3 is being reviewed. (10/17/91)
3FF1.49	The WHC Program Office, with the assistance of Engineering, will develop an appropriate letter for DOE-RL transmittal to EPA/Ecology concerning the schedule delay for 300-FF-1. Action: L. Hulstrom (1/24/91)	Open A status letter was sent to DOE on September 19. Discussions are still ongoing. (10/17/91)
3FF1.56	Prepare a compilation report containing information on the filter backwash pond, the flyash pits and boiler operations and submit it to the regulators. Action: Larry Hulstrom and Bob Stewart (3/21/91)	Open Work in progress to compile requested information. The scope of this task exceeded early expectations and will require additional time. (10/17/91)
3FF1.62	An update on the compilation of geologic data is to be given at the September UMM. The use of the information in groundwater modeling should be addressed. Action: L. Hulstrom (7/17/91)	Closed Discussion held during this meeting. (10/17/91)

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- 3FF1.64 Copies of the revised topographical map are to be provided to the regulators and to DOE. The topo map is being revised to WHC standards by Kaiser. Action: L. Hulstrom (9/17/91) Open
Maps are waiting for WHC review and approval. Distribution will follow approval. (10/17/91)
- 3FF1.65 Information on groundwater wells near contaminated soil gas collection points is to be reviewed. The Battelle database of groundwater data will be utilized. Action: L. Hulstrom (9/17/91) Closed
Information compiled and discussed on October 17, 1991.
- 3FF1.66 Information on turnaround times and the cause for delay of non-hazardous source characterization samples will be provided to the regulators. Action: L. Hulstrom (9/18/91) Closed
Status provided by J. Kessner at the General Topics meeting. (10/17/91)
- 3FF1.67 The following activities are to be considered to verify the SAIC and IT data: (1) evaluate SAIC data & procedures, (2) compare TMA and SAIC data when assembled, (3) conduct a small spring sampling effort in 1992. (9/18/91) Open
Item (1) was completed; (2) and (3) will be performed when appropriate. (10/17/91)

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October 17, 1991

0 Remedial Investigation Activities

TASK 1 - SOURCE INVESTIGATION

1a - Source Data Compilation

Task completed

1b - Ground Penetrating Radar Survey

A letter report summarizing the results of survey work at Burial Grounds 4 & 5 was received from PNL on September 17, 1991. Sufficient detail exists to allow location of initial test pits; Correlations with groundwater data and soil gas test results are being developed. Field work on the west side of the 307 Retention Basins and over the west end of the 307 Trenches has been completed and data reduction is nearly done.

1c - Electromagnetic Survey

Follow up to the previous years survey along the retired process sewer, 307 pipeline, and RLWS will be performed after remaining work associated with Task 1b has been completed.

1d - Topographic Base Map Development

Funding has been provided to complete transition of the maps into formal "base maps". Maps were received for approval on September 3, 1991. They are undergoing a final review.

1e - "In-Pipe" Remote Inspection Survey of the RLWS

Design work, procurements, etc. continue towards the initiation of the actual survey. Dose calculations, hazards assessment work, and air permitting requirements are being worked based on a status meeting that was held on October 2, 1991.

1f - Soil Gas Survey

The report (WHC-MR-0288) on soil gas surveys over Burial Grounds 4 & 5 has been finalized and copies are now available for distribution. Comparison of this data to geophysical data is underway. 84 samples were taken, for which the presence of TCE, PCE, and DCE were identified in 13 samples. Results indicate that VOC concentrations ranged from 60 ppb to 16 ppm.

1g - Non-Hazardous Source Characterization

As of June 27, sampling efforts have been completed, with the exception of the center flyash pit which is still receiving filter backwash pond discharge. Sampling of this last area has been postponed until discharge is ceased. Only incomplete data packages have been received from OSM to date.

TASK 2 - GEOLOGIC INVESTIGATION

2a - Geologic Data Compilation

The final report (WHC-EP-0500) is in printing. Several advance copies are now available for distribution. A discussion of the report and it's integration with modeling activities will be provided at this meeting.

October 17, 1991

0 Remedial Investigation Activities - (continued)

TASK 3 - SOIL INVESTIGATION

3a - Surface Radiation Survey

Task completed.

Disposition of surface contamination to be addressed.

3b - Soil Sampling and Analysis

Drilling of the first borehole at the South Process Pond was initiated on September 16 and completed on September 27. Groundwater was intercepted at 25 ft, the well was completed at 35 ft, and about 10 samples for chemical analysis were taken.

Drilling of the second borehole at the North Process Pond was initiated on October 3 and completed on October 14. Groundwater was intercepted at 22.5 ft, the well was completed at 32 ft, about 11 samples were taken for analysis, and demobilization is underway.

Direction has been provided to proceed with drilling at the 307 Retention Basins and 307 Trenches next.

After approval by the regulators on September 18 the first backhoe test pit was initiated on September 20. In less than 3 hours the pit had been dug, sampled, and refilled. Groundwater was intercepted at 12 ft, the pit was excavated to 17 ft, and 7 samples were taken for analysis.

On October 7 the regulators approved the use of the backhoe to replace remaining boreholes scheduled for the Process Ponds and Burial Grounds 4 & 5. On October 15, the Davis/Bacon review was submitted to DOE. Other associated paperwork is being completed, anticipating that work can be initiated before November 1.

TASK 4 - AIR INVESTIGATION

4a - Air Data Compilation

A draft report was received on July 30 and WHC comments were returned on August 6. The report has now been finalized and was submitted to WHC on October 16 for initiation of DOE clearance.

4b - Ambient Air Sampling

Real-time monitoring will be conducted during characterization activities by WHC (rad.) and HEHF (non-rad.)

October 17, 1991

0 Remedial Investigation Activities - (continued)

TASK 5 - TERRESTRIAL BIOLOGICAL INVESTIGATION

5a - Biological Survey

5a-1 Hazardous Substances Biological Uptake Assessment

The first draft of this report was received from PNL on August 13 for WHC review. Due to the results of the asparagus analysis the draft will be reworked. (see discussion in 5b.)

5a-2 Species Survey

The small mammal survey has been completed. The invertebrate species survey procedure has been reviewed and discussed with PNL. The survey to identify if harvester ants are creating a problem around the waste sites will be performed during October. The report on this activity has been delayed to after completion of the ant survey.

5b - Asparagus Sampling and Analysis

- o Statistical analysis of the data and comparison of the data to other analytical results indicates that results from SAIC are flawed and of little value for uranium. C. Brandt (PNL) and personnel from Ebacso that performed the data validation met October 2 and discussed the information presented at the September UMM. After review of data and test procedures it was concluded that SAIC had failed to meet the minimum level of detection for the procedure used, thus resulting in numerous "non-detects". Those results above the MDL were 300X greater than comparable results.
- o Split samples for SAIC and Weyerhaeuser data were finally shipped to TMA/Norcal on June 12. (No results have been received as yet.) Comparison of these results to SAIC will confirm which result is correct and determine if another limited sampling effort is required next year.
- o The analysis of soil samples from asparagus sampling locations via the PNL XRF procedure has been completed. The results of the analysis have been included in the draft Hazardous Substances Biological Uptake Assessment report received from PNL on August 13.

TASK 6 - DATA EVALUATION

- 6a - Source Data Evaluation
- 6b - Geologic Data Evaluation
- 6c - Soil Data Evaluation
- 6d - Air Data Evaluation
- 6e - Terrestrial Biological Data Evaluation
- 6f - Integration of Data Evaluation Tasks

These activities are taking place as data is made available from other tasks.

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October 17, 1991

0 Remedial Investigation Activities - (continued)

Task 7 - VERIFICATION OF ARARS

Performed with data available from the RI when gathered, and supplemented as new information becomes available.

Task 8 - BASELINE RISK ASSESSMENT

Efforts will be initiated soon to begin this task with available data. The site wide methodology being developed as part of Milestone M-29-00 will be utilized as soon as it becomes available.

Task 9 - PHASE I RI REPORT

Work on this task will begin later this fiscal year.

Phase 1 Feasibility Study - Remedial Alternatives Development

Efforts will be initiated soon to begin this task with available data.

0 Schedule

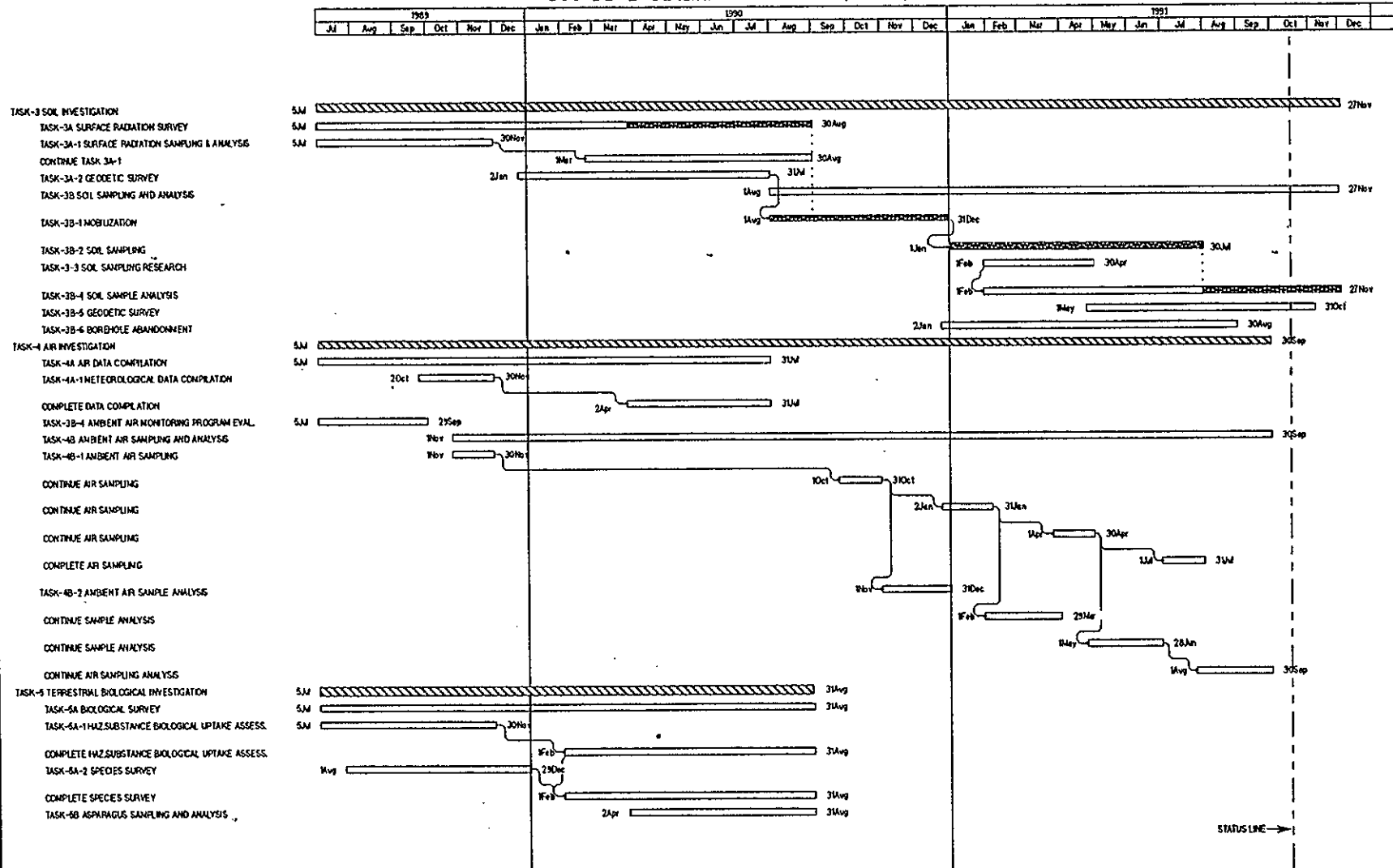
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300-FF-5 GROUNDWATER MODEL

BOUNDARY CONDITIONS

- **WESTERN BOUNDARY IS FIXED - APRIL 1987 GROUNDWATER TABLE INITIAL CONDITIONS**
- **RIVER STAGE IS ADJUSTED TO REFLECT SEASONAL VARIATION**
- **SOURCE TERMS ASSIGNED AS NEEDED (eg. 316-5 PROCESS TRENCH)**

300-FF-1 OPERABLE UNIT (RI/FS)



LEGEND		Project: EC323/EC324	300FFR	Date: 20 Oct 91 12:37
	CRITICAL PATH	300-FF-1 EC323/EC324 (RI/FS)		
	SUMMARY	Page: 2 of 5	Drawn by: STEVE J. SANEY	6-3092
	ACTIVITY			



300-FF-1 OPERABLE UNIT (R/F/S)

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31st	32nd	33rd	34th	35th	36th	37th	38th	39th	40th	41st	42nd	43rd	44th	45th	46th	47th	48th	49th	50th	51st	52nd	53rd	54th	55th	56th	57th	58th	59th	60th	61st	62nd	63rd	64th	65th	66th	67th	68th	69th	70th	71st	72nd	73rd	74th	75th	76th	77th	78th	79th	80th	81st	82nd	83rd	84th	85th	86th	87th	88th	89th	90th	91st	92nd	93rd	94th	95th	96th	97th	98th	99th	100th
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PHASE 1: PRELIMINARY ALTERNATIVES DEVELOPMENT

Task 1: Development of Preliminary Action Objectives

Task 2: Development of General Response Actions

Task 3: Development of Preliminary Response Objectives

Task 4: Development of Process of Response

Task 5: Development of Response Objectives

Task 6: Development of Response Objectives

Task 7: Development of Response Objectives

Task 8: Development of Response Objectives

Task 9: Development of Response Objectives

Task 10: Development of Response Objectives

Task 11: Development of Response Objectives

Task 12: Development of Response Objectives

Task 13: Development of Response Objectives

Task 14: Development of Response Objectives

Task 15: Development of Response Objectives

Task 16: Development of Response Objectives

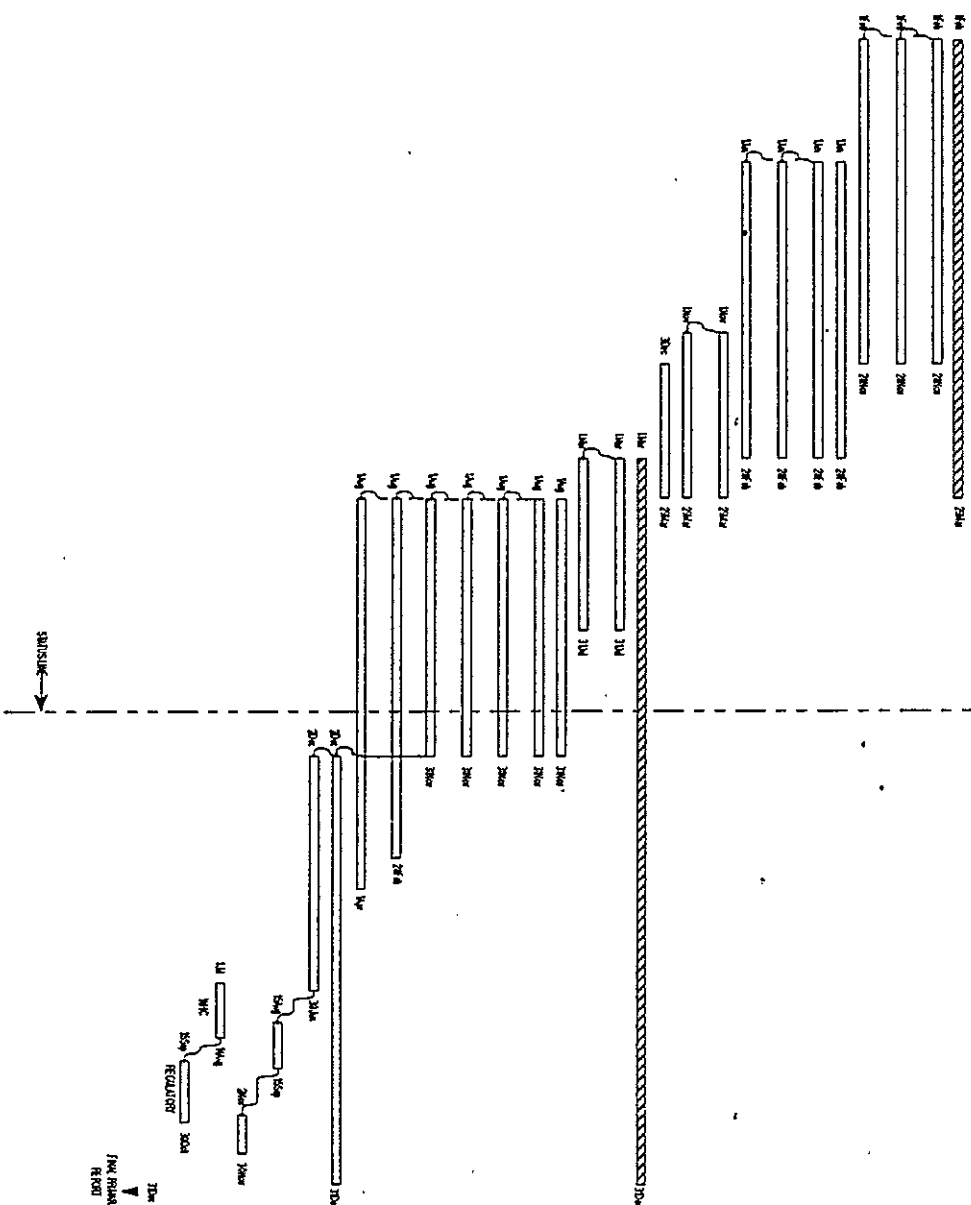
Task 17: Development of Response Objectives

Task 18: Development of Response Objectives




Task 19: Development of Response Objectives

Task 20: Development of Response Objectives

Task 21: Development of Response Objectives



300-FF-1 OPERABLE UNIT (R/F/S)	
Project No.	300-FF-1
Project Name	300-FF-1 OPERABLE UNIT (R/F/S)
Project Location	300-FF-1 OPERABLE UNIT (R/F/S)
Project Date	300-FF-1 OPERABLE UNIT (R/F/S)
Project Status	300-FF-1 OPERABLE UNIT (R/F/S)
Project Owner	300-FF-1 OPERABLE UNIT (R/F/S)
Project Manager	300-FF-1 OPERABLE UNIT (R/F/S)
Project Engineer	300-FF-1 OPERABLE UNIT (R/F/S)
Project Designer	300-FF-1 OPERABLE UNIT (R/F/S)
Project Contractor	300-FF-1 OPERABLE UNIT (R/F/S)
Project Consultant	300-FF-1 OPERABLE UNIT (R/F/S)
Project Reviewer	300-FF-1 OPERABLE UNIT (R/F/S)
Project Approver	300-FF-1 OPERABLE UNIT (R/F/S)

LEGEND	
 OFFICIAL NAME	 ACTIVITY
 SUBJECT	
Project FC1	Page 615 Date: 8 Oct 91 DSD
300-F-1 OPERABLE UNIT RFRS	
Page 615	Drawn by: STEVE L. SWEET 4-2092

300-FF-5 GROUNDWATER MODEL

BOUNDARY CONDITIONS

- **WESTERN BOUNDARY IS FIXED - APRIL 1987 GROUNDWATER TABLE INITIAL CONDITIONS**
- **RIVER STAGE IS ADJUSTED TO REFLECT SEASONAL VARIATION**
- **SOURCE TERMS ASSIGNED AS NEEDED (eg. 316-5 PROCESS TRENCH)**

CONCEPTUAL MODEL

● SOURCES OF INFORMATION

- DOE, 1990 300-FF-5 OPERABLE UNIT WORK PLAN
- SCHALLA ET AL. 300 AREA PROCESS TRENCH CHARACTERIZATION REPORT
- GAYLORD ET AL. 300 AREA GEOLOGIC CHARACTERIZATION REPORT
- SPANE LETTER REPORT EVALUATION OF AQUIFER TESTS REPORTED IN SCHALLA ET AL.
- LINDBERG AND BOND 300 AREA GEOHYDROLOGY AND GROUNDWATER CHARACTERIZATION

300-FF-5 GROUNDWATER MODEL

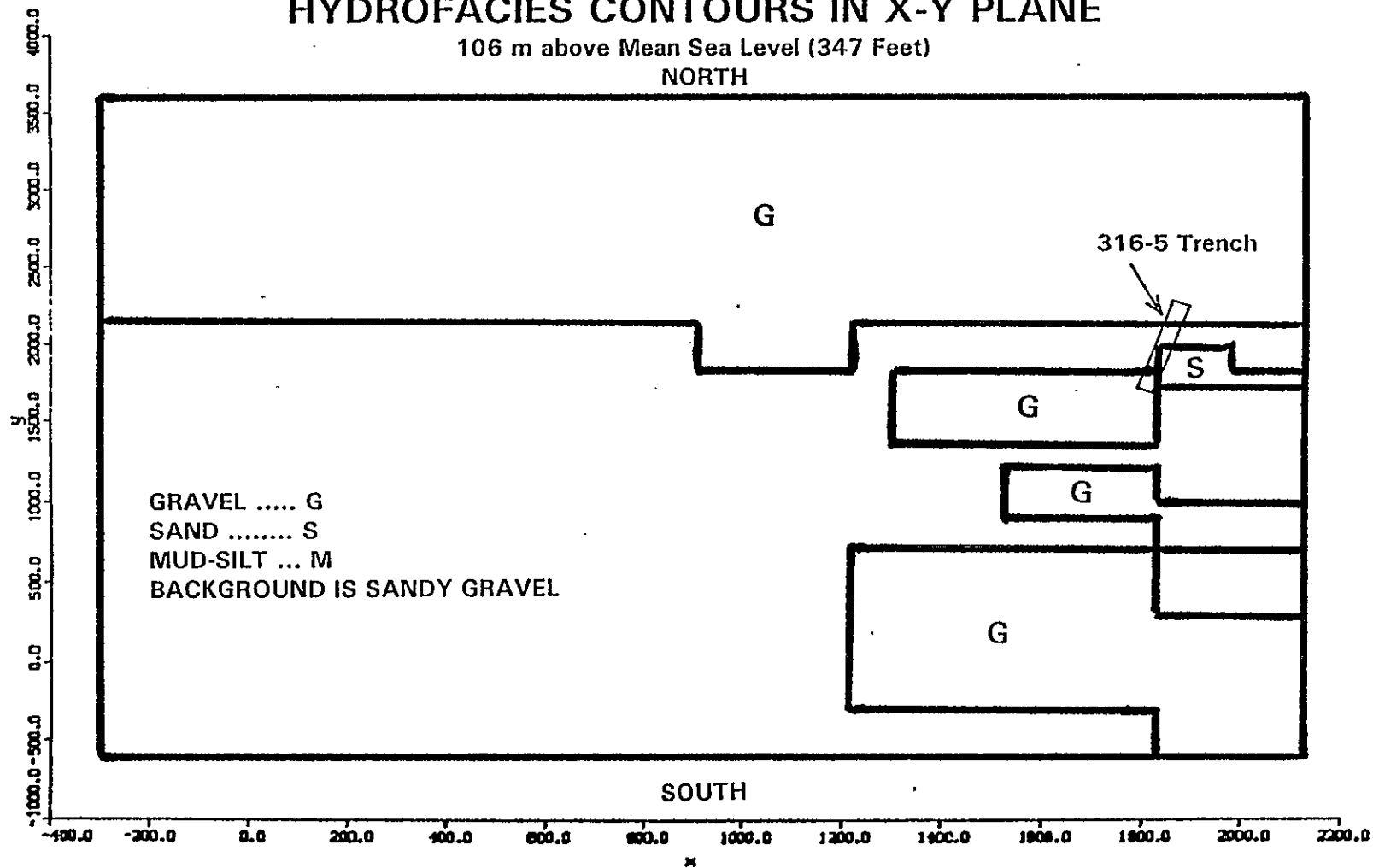
HYDRAULIC CONDUCTIVITIES

- **GRAVEL 15,000 m/day**
- **SANDY GRAVEL 500 m/day**
- **SAND 2.0 m/day**
- **MUD/SILT 0.02 m/day**

HYDROFACIES CONTOURS IN X-Y PLANE

106 m above Mean Sea Level (347 Feet)

NORTH



NOT TO SCALE

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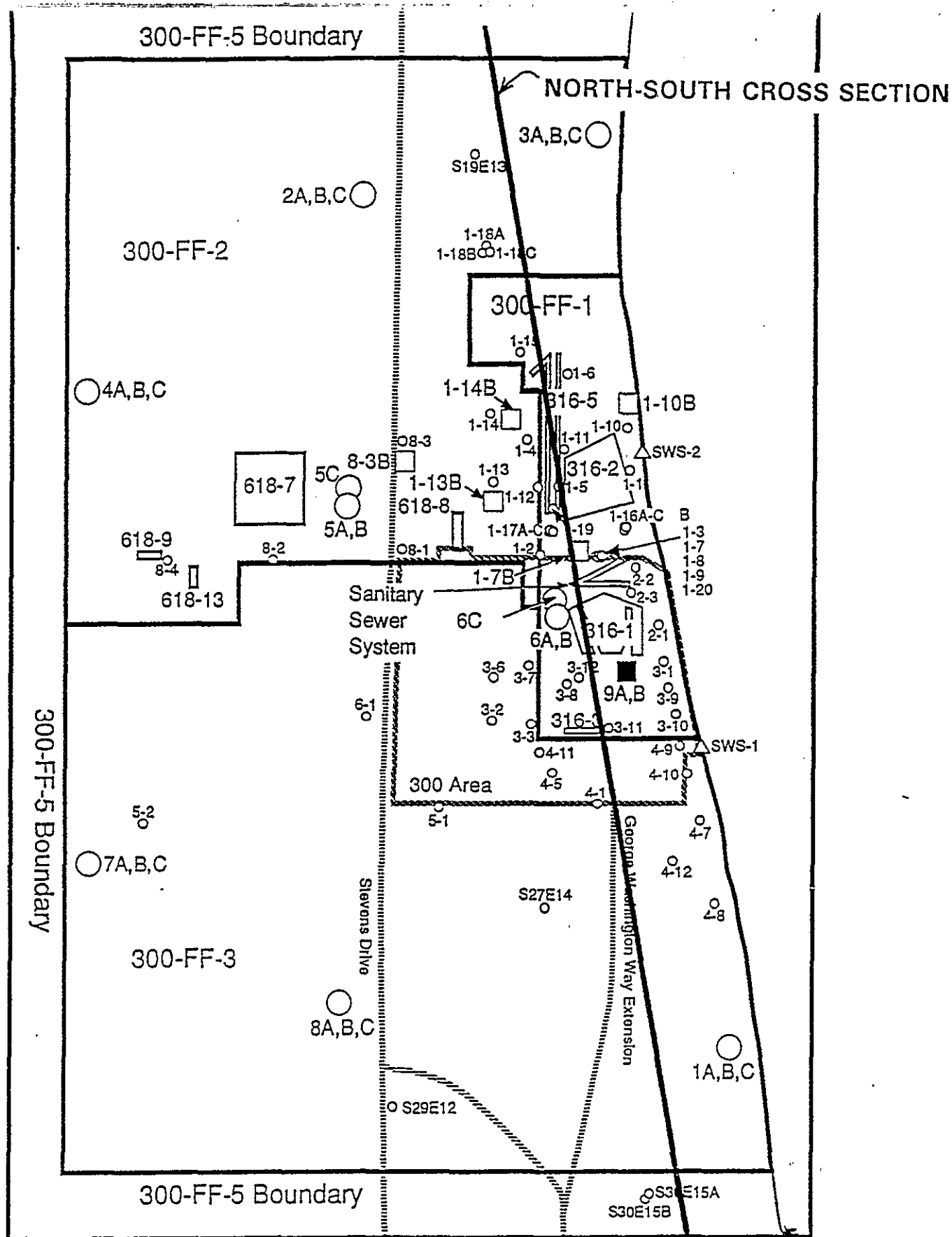
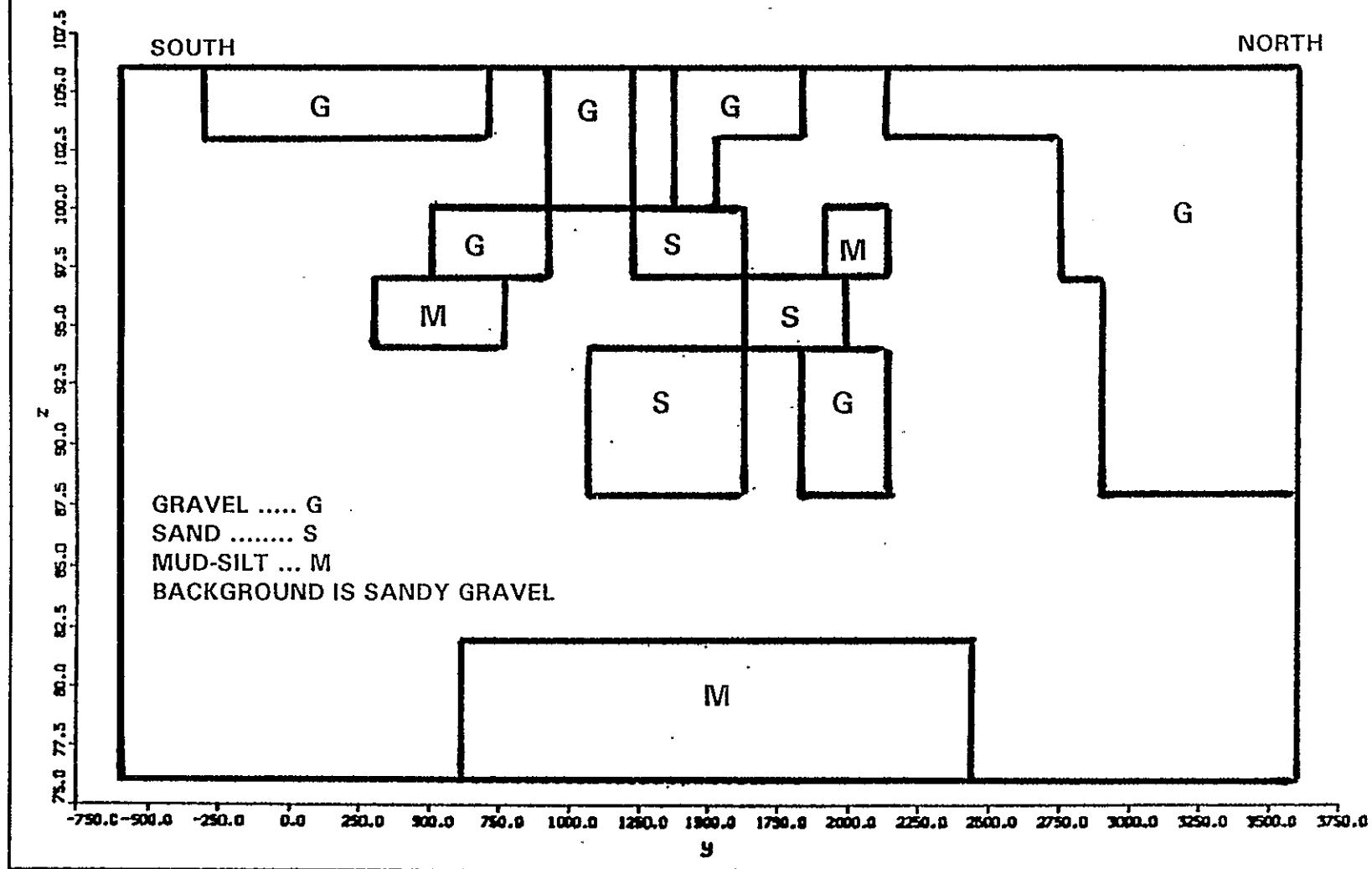
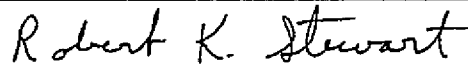

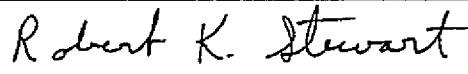

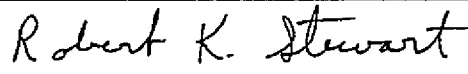

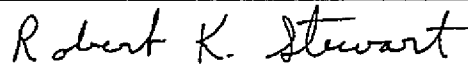

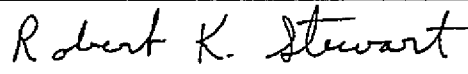

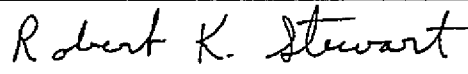

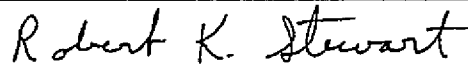

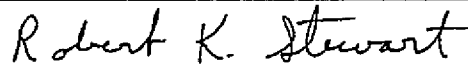

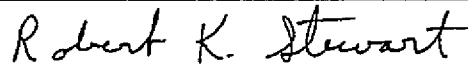

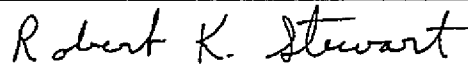

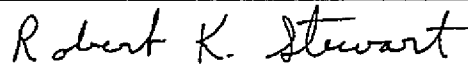

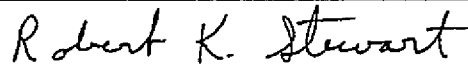

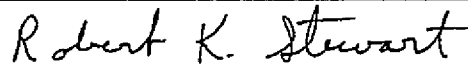

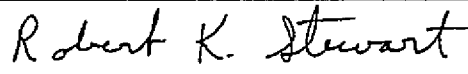

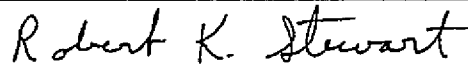

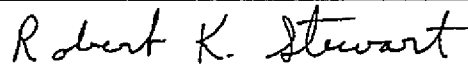

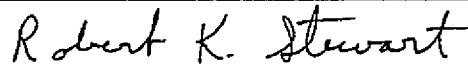

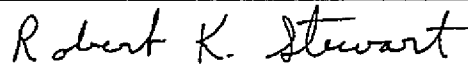

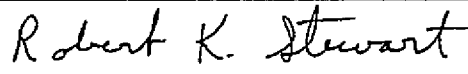

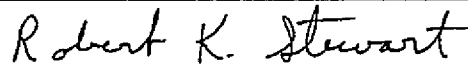

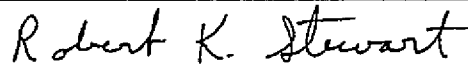

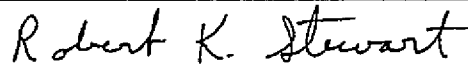

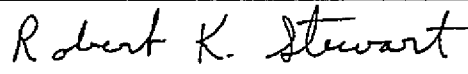

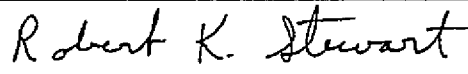

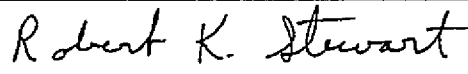

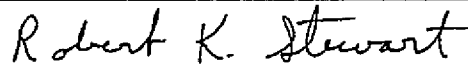

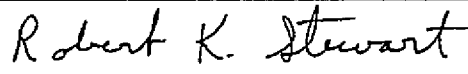

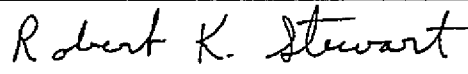

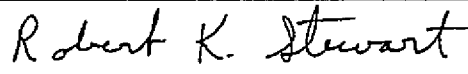

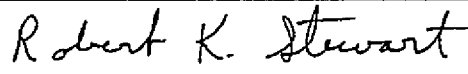

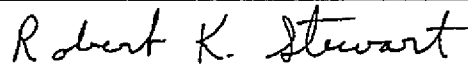

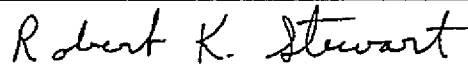

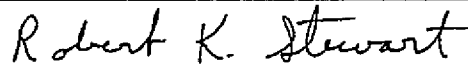

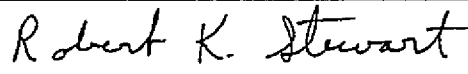

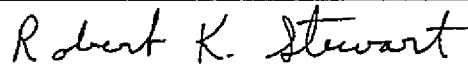

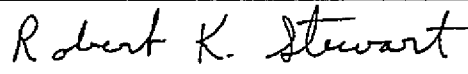

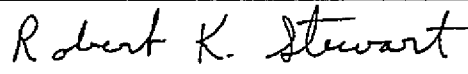

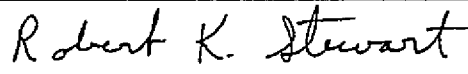

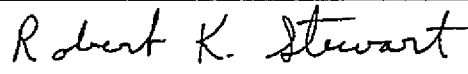

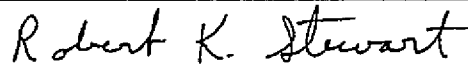

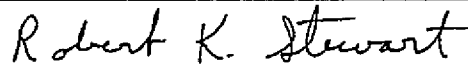

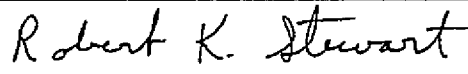

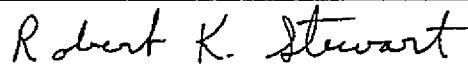

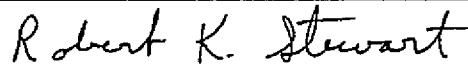

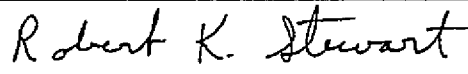

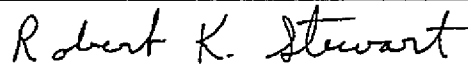

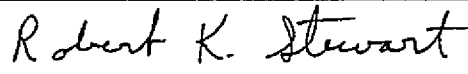

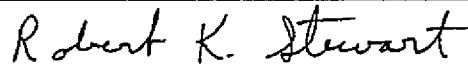

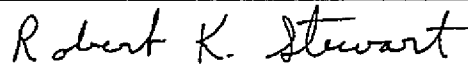

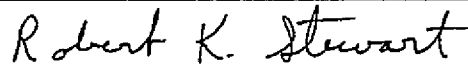

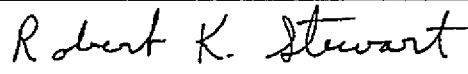

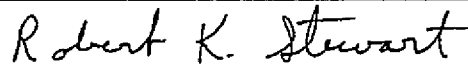

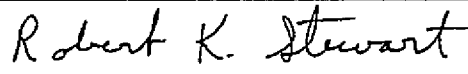

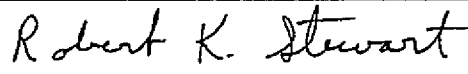

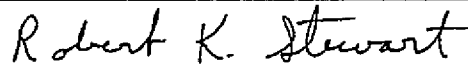

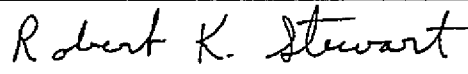

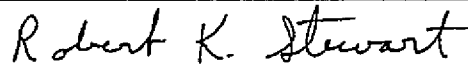

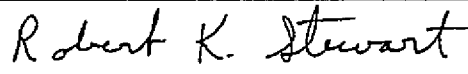

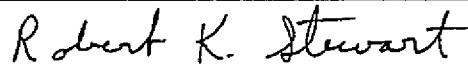

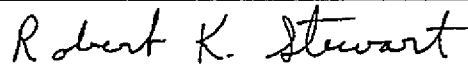

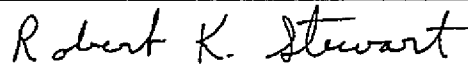

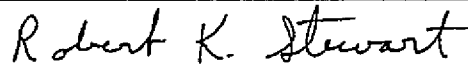

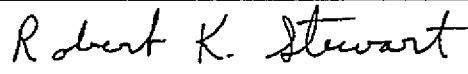

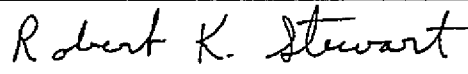

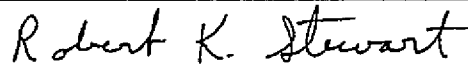

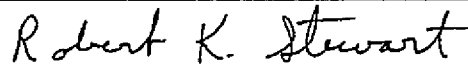

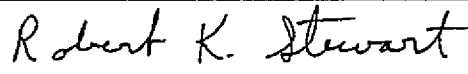

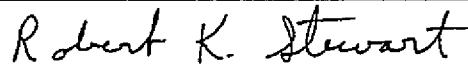

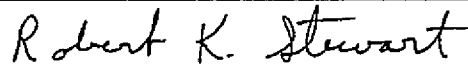

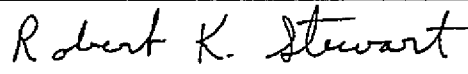

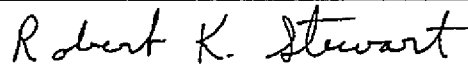

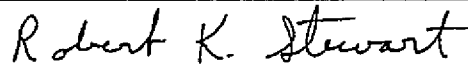

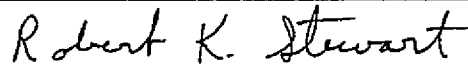

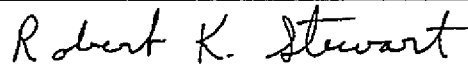

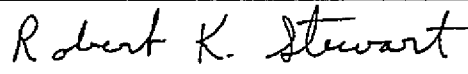


Figure 1 - Master Well Map

HYDROFACIES CONTOURS

North-South Cross Section Through 316-5 Trench



Change Number 300-FF-1-05	APPROVED DOCUMENT CHANGE CONTROL FORM Do not use blue ink. Type or print in black.	Date 10/7/91
Document Number & Title DOE/RL 88-31, "Remedial Investigation/ Feasibility Study Work Plan for the 300-FF-1 Operable Unit, Hanford Site, Richland, Washington		Date Document Last Issued June, 1990
Originator L. C. Hulstrom, 300-FF-1 RI Coordinator		Phone (509) 376-4034
<u>Description of Change</u> The method of sampling identified in the work plan is based on the use of drilling methods to create a borehole and obtain a sample. One such borehole has been completed in the South Process Pond and another is underway in the North Process Pond. Rather than continue to drill the remaining characterization boreholes in the North and South Process Ponds it is proposed that a backhoe/excavator be used to create test pits (five feet into ground water) from which samples at the intervals identified in the work plan can be obtained. Furthermore it is proposed that test pits be utilized instead of boreholes as sampling locations in Burial Grounds 4 & 5. The backhoe bucket will be cleaned of visible dirt before each sampling interval and steam cleaned between test pit locations. Note: Include affected page number Section 4.1.4.3 (WP-144), Section 5.3.3.2.2.2 (WP-167), and Section 4.2 (SAP/FSP-14)		
<u>Justification and Impact of Change</u> Use of this method during the current low river stage will recover schedule delays while providing a substantial cost reduction for the ER Program. This method was successfully implemented during the 316-5 Process Trenches ERA to support 300-FF-1 characterization activities. The method enhances characterization information while providing samples which meet the DQO's for 300-FF-1. The use of this method in the Burial Grounds will provide an improved portrayal of the burial ground contents. The sample data necessary to support the Phase I RI report will also be available in a more timely manner.		
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DON'T SAY IT --- Write It!

DATE: October 8, 1991

TO: Dave Einar, EPA Unit Manager,
300-FF-1 OU

FROM: Bob Stewart, DOE Unit Manager,
300-FF-1 OU

Telephone: 6-6192

cc: Rich Hibbard, Ecology Unit Manager,
300-FF-1 OU
Administrative Record - 300-FF-1

Liz Bracken, DOE-RL
Julie Erickson, DOE-RL
Steve Wisness, DOE-RL
Tim Veneziano, WHC
Rich Carlson/Larry Hulstrum, WHC

SUBJECT: Approval of Change Control Form - Use of Test Pits in lieu of
Drilling for Vadose Zone Investigation for the North and South
Process Ponds and Burial Grounds 4 and 5

As a follow-up to our meeting of October 1, 1991, I am forwarding the attached Change Form for your approval. As we discussed, use of test pits rather than drilling for the vadose zone investigation has several advantages. In addition to providing what we believe will be superior data, significant cost and schedule savings will be realized. As we also discussed it is our desire to initiate work ASAP to take advantage of the low river stage presently existing. Therefore, we request your acting on this Change ASAP.

This change does not impact target dates nor supporting schedules, but because of the magnitude of the technical scope it changes (up to 24 vadose zone wells will be trenched rather than drilled), it is being submitted as a Class III change rather than handled as a minor field change. Minor field changes do not require documentation by change forms.

I appreciate your and Rich's working with us to take advantage of the trenching proposal, which offers a better, more timely, and cost effective way of performing characterization work. Please call me if you have any questions about this DSI or the attached Change Control Form.

UNIT MANAGERS MEETING

OCTOBER 17, 1991

450 HILLS ROOM 47

11:30 AM

PROJECT L-019 ROAD GROUND AND SAFETY IMPROVEMENTS, 300 AREA.

1. WHAT IS PLANNED?

- Proper storm drainage.
- Improved paved and unpaved surfaces.
- Pedestrian walkways away from traffic.
- Safe and more efficient parking.
- Enhanced traffic flow patterns.

2. WHY IS IT NECESSARY?

- To bring the area into compliance with DOE Order 6430.1A Hanford Design Standards.

3. CONSIDERATION FOR ENVIRONMENTAL PROBLEMS.

- Work to be performed will consider environmental remediation schedules.
- Areas of high radiation.
 - . Design around the problem areas.
 - . Remove minor amounts of contaminated materials.
 - . Relocated planned facility if possible.

4. SPECIFIC DESIGNATED AREAS OF CONCERN.

- 1. 307 Trenches. Will work around areas of concern.
- 2. Burial ground, North parking lot. Our work will depend upon the remediation schedule. The project plan is to overlay this area with Asphaltic Concrete.
- 3. Liquid waste sewer clean-out. Locate during design and protect during construction.
- Other areas of known contamination. These will be characterized during final design and consideration will be made on handling these problems in making the improvements planned by the project.

RCH 10/15/91

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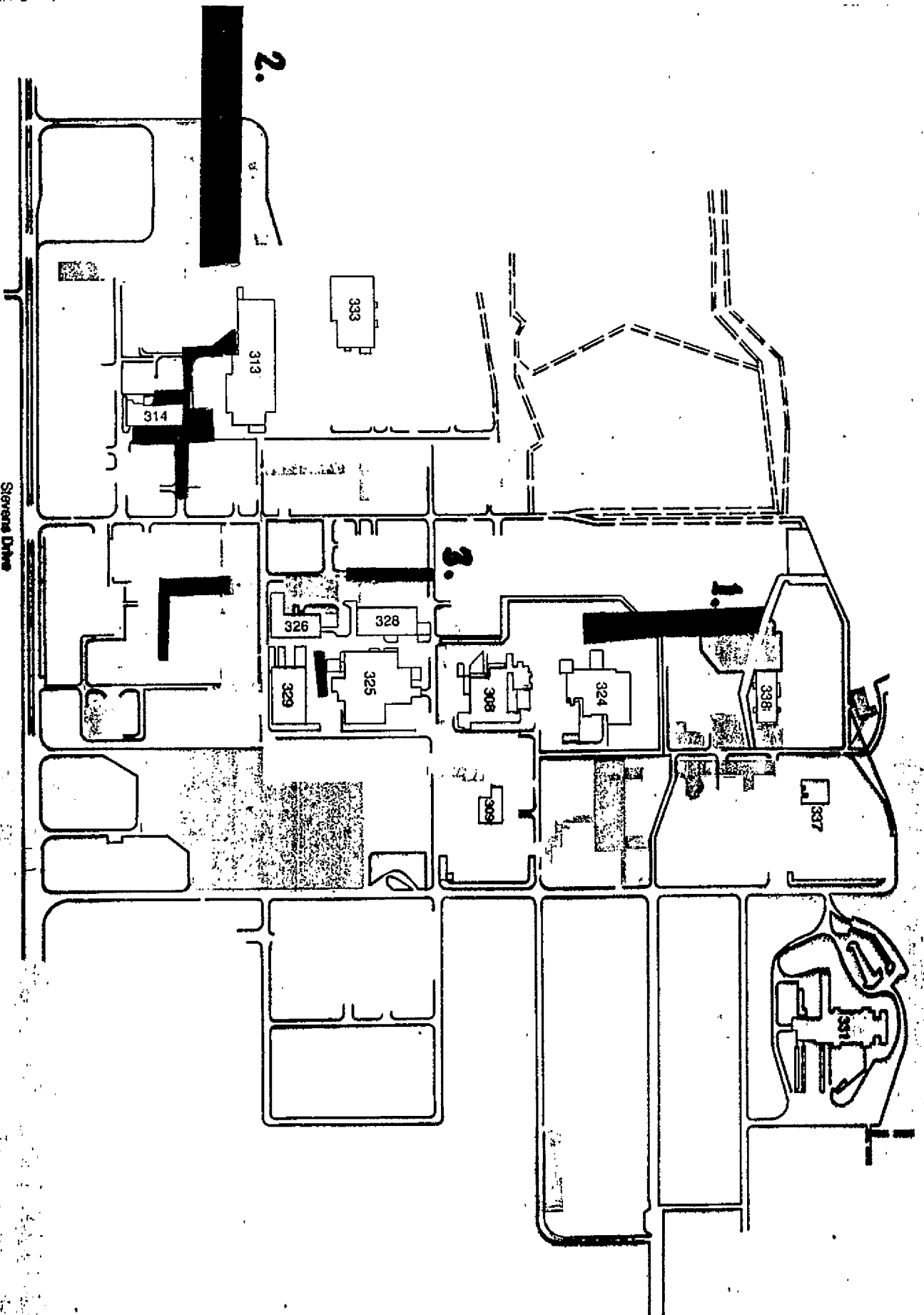
PROJECT L-019

ROAD, GROUND AND SAFETY IMPROVEMENTS, 300/1100 AREAS

- **WHAT IS PLANNED?**
- **WHY IS IT NECESSARY?**
- **WHAT WILL BE DONE TO WORK WITH THE ENVIRONMENTAL UNITS?**

Unit Managers Meeting 10/17/91

9 2 1 2 4 1 4 0 5 2 4



Seymour Drive

Distribution

300-FF-1 Operable Unit Managers Meeting
October 17, 1991

Ward Staubitz, USGS

Chuck Cline, WDOE
Tim Veneziano, WHC (B2-35)
Tom Wintczak, WHC (L4-92)
Mel Adams, WHC (H4-55)

Richard D. Wojtasek (L4-92)
Program Mgr., WHC

Diane Clark, DOE-RL (A5-55)
Donna Lacombe, PRC
Larry Hulstrom, WHC (H4-55)
Rich Carlson, WHC (H4-55)
Don Praast, GAO (A1-80)
Mike Thompson, DOE (A5-19)
David Pabst, WHC (B2-35)

Elizabeth A. Bracken (A5-19)
Director, DOE-RL, ERD

Ronald E. Gerton (A4-02)
Director, DOE-RL, WMD

Roger D. Freeberg (A5-19)
Chief, Rstr. Br., DOE-RL/ERD

Steven H. Wisness (A6-95)
TPA Proj. Mgr.

ADMINISTRATIVE RECORD: 300-FF-1; Care of Susan Wray, WHC (H4-22)

Please inform Doug Fassett (SWEC) of deletions or additions to the distribution list.

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